

PATENT ABSTRACTS OF JAPAN

(11)Publication 09-156998
number :
(43)Date of 17.06.1997
publication of
application :

(51)Int.Cl. C04B 35/00
B01D 39/20
B01J 20/02
B09B 3/00
C04B 35/16
C04B 38/00
C09K 17/02
B01C 3/00
// C09K103:00

(21)Application 07-334057
number :
(22)Date of 29.11.1995
filing :

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(54) CERAMIC OF COAL ASH, ITS PRODUCTION AND USE THEREOF

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a ceramic molding of coal ash, especially ceramic particles of coal ash, usable in a wide range of uses such as a soil improving material, a construction material, a water cleaning material, a filter material, an adsorbent, etc., by reusing coal ash as an industrial waste.

SOLUTION: This ceramic is obtained by molding and sintering very fine particles of coal ash having 1-10 μ m particle diameter. The very fine particles of coal ash are mutually bonded, a great number of fine voids are formed between the bonded very fine particles. These voids have a microstructure leading from the surface of the ceramic particles to the interior, 1-1.9g/cm³ bulk density and 10-50vol% percentage of water absorption, high air permeability and water permeability and proper water retention.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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